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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/518,299 | 12/17/2004 | Hiroto Watanabe | 4703-0107PUS1 | 6695 |

2292 7590 01/11/2007
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| EXAMINER |
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TRIEU, VAN THANH

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| ART UNIT | PAPER NUMBER |
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2612

| SHORTENED STATUTORY PERIOD OF RESPONSE | NOTIFICATION DATE | DELIVERY MODE |
|--|-------------------|---------------|
| 3 MONTHS | 01/11/2007 | ELECTRONIC |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 01/11/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

| | | | |
|------------------------------|-----------------|-----------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/518,299 | WATANABE ET AL. | |
| | Examiner | Art Unit | |
| | Van T. Trieu | 2612 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 November 2006.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 and 11-15 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 and 11-15 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

1. Claims 1-9 and 11-15 are rejected under 35 U.S.C. 102(a) as being anticipated by **Senba et al** [US 7,088,249] or WIPO [WO 02/07078 A1].

Regarding claim 1, a contact less communication system information carrier, comprising: a core piece in which an integrated circuit chip with an antenna coil integrally formed on one surface is fitted inside a recess of a core piece body (the RFID tag 1a, 1b having an IC chip 4 and antenna coil 2a, 2b are fitted inside a recess/opening 7 or groove 42, see Figs. 2, 3, 7, 9, 12 and 17-21, col.11, lines 10-64 and col. 18, lines 11-26); and a non-metal spacer in which the core piece center of the spacer to retain the core fitted to fitting part located in a piece (the filling with non-metal resin 8, see Figs. 2, 3, 7, 9, 12 and 17-21, col.11, lines 10-38 and col. 18, lines 11-19); and a metal weight, which is placed and coupled so as to surround an outer periphery of the spacer (the metal/conductive material comprises a housing portion 5, 41 and a lid plate 11 for enclosing the whole resin 8, see Figs. 2, 3, 7, 9 and 17-21, col. 11, lines 10-20 and 40-45, col. 13, lines 8-19 and col. 18, lines 11-48); and wherein the antenna coil and the metal weight are separated from each other via the spacer (the antenna coil 2a is

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separated from the metal/conductive housing portion 5, 41 and lit plate 11 via the resin 8, see Figs. 2, 4, 6, and 21).

Regarding claim 2, the claimed the fitting part of the core spacer comprises a bottomed recess or through a hole, piece body is forcibly fitted into the fitting part (the opening recess 7 or groove 42, see Figs. 2, 3, 7, 9, 12 and 17-21).

Regarding claim 3, the claimed the outer peripheral surface of the core piece body has an annular convex portion or an annular groove, an inner peripheral surface of the fitting part of the spacer has an annular groove or an annular convex portion, and the annular convex portion and the annular groove are fitted to each other (the installation annular groove 42, see Figs. 17-21, see col. 18, lines 11-48).

Regarding claim 4, the claimed fitting part of the spacer comprises a bottomed recess, and an inner peripheral surface of the fitting part or an outer peripheral surface of the core piece body has an air vent groove (the gap servers as leakage path 12 or spacer 13, see Figs. 3A and 3B, col. 12, lines 13-44).

Regarding claim 5, the claimed weight has a through hole in a center part thereof and a spacer made of a synthetic resin is forcibly fitted into the through hole (the lit plate 11 has a center hole 11e can be filled with non-conductive material, see Fig. 9, col. 14, lines 48-53).

Regarding claim 6, the claimed an inner peripheral surface of the through hole has a locking rib, which cuts into an outer peripheral surface of the spacer when the spacer is forcibly fitted into the through hole has a locking rib, which cuts into an outer peripheral surface of the spacer when the spacer is forcibly fitted into the through hole (the spacer 13, see Fig. 3B, col. 14, lines 21-41 and col. 19, lines 16-21).

Regarding claim 7, the claimed weight has a through hole in a center part thereof, and a spacer made of a synthetic resin is insert-molded into the through hole is met by the hole 11e and spacer stated in respect to claims 1, 5 and 6 above.

Regarding claim 8, the claimed an inner peripheral surface of the through hole has a locking rib, which cuts into an outer peripheral surface of the spacer when the spacer is forcibly fitted into the through hole is met by the filling spacer with non-conductive material through the hole 11e or spacer 13 in respect to claims 5 and 6 above.

Regarding claim 9, all the claimed subject matters are stated in respect to claim 1 above.

Regarding claim 11, all the claimed subject matters are stated in respect to claims 1 and 9 above.

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Regarding claim 12, all the claimed subject matters are stated in respect to claim 1 above.

Regarding claim 13, all the claimed subject matters are stated in respect to claims 2 and 12 above.

Regarding claim 14, all the claimed subject matters are stated in respect to claims 3 and 13 above.

Regarding claim 15, all the claimed subject matters are stated in respect to claims 4 and 13 above.

Response to Arguments

2. Applicant's arguments, see the Amendment After Non-Final Rejection, filed 17 November 2006, with respect to the rejection(s) of claim(s) 1-9 and 11-15 under **Senba et al** [US 6,927,738] have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of **Senba et al** [US 7,088,249] or WIPO [WO 02/07078 A1]. The WIPO [WO 02/07078 A1] filing date is 24 January 2002 is prior to the filing date 17 June 2002 of the PCT/JP03/076078, which can be rejection under 102(a).

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Senba et al disclose an RFID tag installing structure for installing a micro-miniature RFID tag having a cylindrical antenna coil to a conductive member through non-conductive resin. [US 6,897,827] and [WO 02/07078] and [WO 02/07081]

Hirai et al discloses an IC module incorporated in an IC-card including a substrate, an IC chip mounted on the substrate and an antenna coil, which includes a conductive film being patterned on a surface of the substrate. [US 6,160,526]

4. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number is (571) 272-2972. The examiner can normally be reached on Mon-Fri from 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mr. Mike Horabik** can be reached on (571) 272-3068.



Van Trieu
Primary Examiner
Date: 1/8/07